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Water-Data Report 2008

**03450000 BEETREE CREEK NEAR SWANNANOA, NC**

French Broad-Holston Basin  
Upper French Broad Subbasin

LOCATION.--Lat 35°39'11", long 82°24'19" referenced to North American Datum of 1983, Buncombe County, NC, Hydrologic Unit 06010105, on left bank 0.5 mi downstream of Wolfe Branch, 0.8 mi upstream from Beetree Reservoir dam, 3.8 mi north of Swannanoa, and 4.8 mi above mouth.

DRAINAGE AREA.--5.46 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--February 1926 to September 1975, October 1979 to September 1981, October 1985 to September 1986, and May 1987 to current year.

REVISED RECORDS.--WSP 823: Drainage area. WSP 893: 1928, 1936-37 (M). WSP 953: 1929 (M). WSP 1276: 1932.

GAGE.--Water-stage recorder and masonry control. Datum of gage is 2,726.39 ft above National Geodetic Vertical Datum of 1929. Prior to May 5, 2005, at site 70 ft upstream at datum 2,728.39 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records poor. Maximum discharge for period of record from rating curve extended above 240 ft<sup>3</sup>/s on basis of computation of peak flow over weir. Minimum discharge for period of record also occurred July 25, 1996. Minimum discharge for current water year also occurred August 12, 13, 15, 16, 20-25.

## 03450000 BEETREE CREEK NEAR SWANNANOA, NC—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**  
[*e*, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.75	1.8	2.6	9.7	14	9.7	11	8.8	5.9	1.6	0.85	8.1
2	0.75	1.7	2.5	e7.9	11	9.5	9.4	8.2	5.4	1.4	0.75	4.5
3	0.76	1.7	3.1	e7.0	9.7	9.6	9.3	7.9	5.1	1.4	1.0	3.2
4	0.90	1.7	2.6	e6.5	13	41	10	7.6	4.7	1.4	0.75	2.3
5	2.2	1.7	2.5	e6.2	15	54	13	6.9	4.4	1.4	0.64	1.9
6	1.3	2.1	2.4	5.9	15	33	21	6.4	4.0	1.4	0.96	1.7
7	1.1	1.9	2.3	5.3	14	30	18	6.1	3.8	1.3	0.73	1.6
8	1.0	1.9	2.3	5.2	12	28	17	6.3	3.6	1.3	0.65	1.4
9	0.99	1.8	2.5	4.8	11	24	15	8.2	3.3	1.7	0.56	1.9
10	0.95	1.9	2.6	5.2	9.1	21	14	8.9	3.5	e2.0	0.56	2.6
11	0.92	1.8	2.3	17	8.0	19	13	7.7	3.4	e1.8	0.55	10
12	1.0	1.7	2.3	13	7.4	17	13	11	3.0	e1.2	0.48	3.8
13	1.0	1.8	2.3	12	7.5	15	11	9.2	2.8	e1.5	0.49	3.1
14	1.0	1.9	2.3	9.3	6.3	14	10	8.5	2.7	e2.5	0.59	2.4
15	1.00	5.4	2.2	7.5	6.0	17	9.2	8.8	2.7	1.7	0.51	2.1
16	0.97	2.8	4.2	6.5	5.9	19	8.2	11	2.5	1.5	2.1	2.2
17	1.1	2.4	3.0	8.1	7.5	17	7.7	9.6	2.3	1.4	1.5	2.2
18	1.1	2.3	2.7	7.8	18	16	7.2	10	2.1	1.3	0.75	1.9
19	1.7	2.2	2.8	6.8	13	24	8.5	11	2.0	1.2	0.63	1.7
20	1.4	2.3	2.8	e5.6	12	35	9.7	11	1.9	1.1	0.56	1.5
21	1.1	2.1	4.0	e5.0	10	29	7.9	10	1.9	1.1	0.50	1.4
22	1.1	2.6	3.9	e4.4	9.6	25	7.3	8.9	2.2	1.1	0.48	1.2
23	1.8	2.3	10	e4.2	8.7	21	6.9	8.0	2.1	1.0	0.48	1.0
24	9.0	2.1	8.9	e4.0	7.7	18	6.7	7.3	1.8	0.99	0.48	0.98
25	4.9	2.1	6.8	e3.8	7.3	16	6.4	6.7	1.7	0.90	0.54	0.87
26	3.4	3.3	7.1	e3.6	12	15	6.2	6.3	1.6	1.0	27	1.7
27	2.7	3.8	6.5	e3.5	10	14	6.1	5.9	1.6	1.1	24	2.9
28	2.3	3.2	7.9	e3.4	9.1	12	13	9.3	1.6	0.88	14	1.6
29	2.1	3.0	9.8	3.6	8.9	14	11	8.7	1.7	0.95	7.2	1.3
30	1.9	2.8	12	3.8	---	12	9.5	7.0	1.8	0.86	3.7	1.2
31	1.8	---	13	3.4	---	11	---	6.4	---	0.81	2.5	---
<b>Total</b>	53.99	70.1	142.2	200.0	298.7	639.8	316.2	257.6	87.1	40.79	96.49	74.25
<b>Mean</b>	1.74	2.34	4.59	6.45	10.3	20.6	10.5	8.31	2.90	1.32	3.11	2.48
<b>Max</b>	9.0	5.4	13	17	18	54	21	11	5.9	2.5	27	10
<b>Min</b>	0.75	1.7	2.2	3.4	5.9	9.5	6.1	5.9	1.6	0.81	0.48	0.87
<b>Cfsm</b>	0.32	0.43	0.84	1.18	1.89	3.78	1.93	1.52	0.53	0.24	0.57	0.45
<b>In.</b>	0.37	0.48	0.97	1.36	2.04	4.36	2.15	1.76	0.59	0.28	0.66	0.51

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1926 - 2008<sup>a</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	6.06	8.40	10.4	13.4	15.1	18.5	16.6	11.7	8.43	6.28	6.59	6.03
<b>Max</b>	33.9	45.3	25.4	38.5	43.0	43.1	34.2	28.5	27.0	37.9	61.8	91.8
(WY)	(1930)	(1980)	(1933)	(1937)	(1990)	(1975)	(1936)	(1973)	(1949)	(1949)	(1940)	(2004)
<b>Min</b>	0.65	1.23	1.58	1.99	4.46	5.25	5.21	4.68	1.82	1.18	0.83	0.51
(WY)	(1955)	(1955)	(1940)	(1940)	(1941)	(1988)	(1986)	(1948)	(1988)	(1998)	(1998)	(1954)

**SUMMARY STATISTICS**

	<b>Calendar Year 2007</b>	<b>Water Year 2008</b>	<b>Water Years 1926 - 2008<sup>a</sup></b>
<b>Annual total</b>	2,122.75	2,277.22	
<b>Annual mean</b>	5.82	6.22	10.6
<b>Highest annual mean</b>			17.8
<b>Lowest annual mean</b>			5.37
<b>Highest daily mean</b>	65	Jan 1	528 Aug 13, 1940
<b>Lowest daily mean</b>	0.73	Sep 30	0.30 Sep 30, 1954
<b>Annual seven-day minimum</b>	0.80	Sep 27	0.40 Sep 24, 1954
<b>Maximum peak flow</b>		97 Mar 4	b1,370 Aug 13, 1940
<b>Maximum peak stage</b>		2.57 Mar 4	6.20 Aug 13, 1940
<b>Instantaneous low flow</b>		b0.48 Aug 11	b0.28 Jul 24, 1996
<b>Annual runoff (cfsm)</b>	1.07	1.14	1.95
<b>Annual runoff (inches)</b>	14.46	15.52	26.47
<b>10 percent exceeds</b>	12	14	22
<b>50 percent exceeds</b>	4.0	3.5	7.3
<b>90 percent exceeds</b>	1.2	0.99	1.6

<sup>a</sup>Period of Record.<sup>b</sup>See Remarks.